

SCIENCE at the Edge

Traditionally distinct scientific disciplines are merging to create new opportunities. Share the excitement and challenge through seminars and discussions with nationally recognized pioneers in science at the edge.



MICHIGAN STATE
UNIVERSITY



Spring Semester 2011

Seminars are on Fridays at 11:30 a.m. with refreshments served at 11:15 a.m.
1400 Biomedical and Physical Sciences Building (unless noted otherwise)

January 14 - Interdisciplinary Physics Seminar

Mark Stockman, Dept. of Physics and Astronomy, Georgia State University
Nanoplasmonics: Citius, Minimus, Fortius!

January 21 - Interdisciplinary Physics Seminar

David Lambert, Delphi Corporation
New Technology to Stop Drunk Drivers from Driving

January 28 - Interdisciplinary Physics Seminar

Bruno Nachtergaele, Dept. Mathematics, University of California-Davis
Gapped Phases of Quantum Spin Systems (towards a qualitative theory of gapped ground states)

February 4 - Interdisciplinary Physics Seminar

Vincent Voelz, Department of Chemistry, Stanford University
Using Theory and Experiment to Tame the Complexity of Protein Folding

February 11 - Interdisciplinary Physics Seminar

Phillip Colella, Lawrence Berkeley National Laboratory
TBA

February 18 - Quantitative Biology and Modeling Seminar

Joan Conaway, Stowers Institute for Medical Research, Kansas City, MO
The Mediator of RNA Polymerase II Transcription: Links to Transcription Elongation and Leukemogenesis

February 25 - Quantitative Biology and Modeling Seminar

Hashim Al-Hashimi, Departments of Chemistry & Biophysics, Univ. of Michigan
The Nucleic Acid Dance Visualized at Atomic Resolution

March 4 - Quantitative Biology and Modeling Seminar

Thomas Meade, Department of Chemistry, Northwestern University
TBA

March 18 - Interdisciplinary Physics Seminar

Chun Liu, Department of Mathematics, Pennsylvania State University
Energetic Variational Approaches in the Modeling of Ionic Solutions and Ion Channels

March 25 - Quantitative Biology and Modeling Seminar

Gail Fanucci, Department of Chemistry, University of Florida
Probing HIV-1 Protease Conformational Sampling with Pulsed EPR Spectroscopy

April 1 - Interdisciplinary Physics Seminar

Sunney Xie, Dept. of Chemistry & Chemical Biology, Harvard University
Life at the Single Molecule Level

April 8 - Engineering Seminar

Arul Jayaraman, Department of Chemical Engineering, Texas A&M University
Inter-Kingdom Signaling in the GI Tract: There is a lot of talking going on...

April 29 - Engineering Seminar

Harvey Blanch, Department of Chemical and Biomolecular Engineering, University of California-Berkeley
Renewable Fuels - A Challenge for Technology or for Policy?

Organizers

Lisa Lapidus (lapidus@pa.msu.edu) & Jeffrey Schenker (Jeffrey@math.msu.edu),
Interdisciplinary Physics

Christina Chan (krischan@egr.msu.edu), Engineering

David Arnosti (arnosti@msu.edu) & David Weliky (weliky@chemistry.msu.edu),
Quantitative Biology/Gene Expression in Development & Disease